RoveCube

OUTDOOR ALL-IN-ONE ENERGY STORAGE

RV-CB-105 / 200 / 215

Integrated energy storage
for commercial and industrial use.



50 / 100 kW	105–215 kWh	512–768 V	IP54
Rated AC Power	Rated Battery Energy	Rated Battery Voltage	Enclosure Protection

All-in-One Design

Integrated battery, PCS and PV input.

Outdoor Cabinet

IP54 enclosure for sheltered outdoor installation.

Air Cooling

Air cooling with temperature management.

System Integration

RS485 / CAN2.0 / Ethernet / dry contact.

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TECHNICAL SPECIFICATIONS

RV-CB-105 / 200 / 215

MODEL	RV-CB-105	RV-CB-200	RV-CB-215
System Power / Energy	50 kW / 105 kWh	100 kW / 200 kWh	100 kW / 215 kWh
BATTERY PARAMETERS			
Rated Battery Energy	105 kWh	200 kWh	215 kWh
Rated System Voltage	512 V	716.8 V	768 V
Battery Type	Lithium Iron Phosphate Battery (LFP)		
Cell Capacity	205 Ah	280 Ah	280 Ah
Battery Series / Parallel Connection	1P × 16S × 10S	1P × 14S × 16S	1P × 15S × 16S
PV PARAMETERS			
Max. PV Input Voltage	1000 V		
Max. PV Power	100 kW	200 kW	200 kW
MPPT Quantity	2 / 4	4 / 8	4 / 8
MPPT Voltage Range	200-850 V		
AC PARAMETERS			
Rated AC Power	50 kW	100 kW	100 kW
Nominal AC Current	72 A	144 A	144 A
Rated AC Voltage / Frequency	400 V, 3P + N + PE, 50 Hz		
Current Harmonic Distortion (THD)	<3% (rated power)		
Power Factor Adjustable Range	1 leading to +1 lagging		

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CABINET & OPERATING PARAMETERS

RV-CB-105 / 200 / 215

MODEL CONFIGURATIONS



RV-CB-105

1200 × 1000 × 2150 mm

1750 kg



RV-CB-200

1850 × 1000 × 2300 mm

2920 kg



RV-CB-215

1800 × 1200 × 2300 mm

3020 kg

Dimensions in mm. Weight includes batteries; approximate.

GENERAL PARAMETERS

Cooling Method	Air-cooled
Protection Level	IP54
Fire Protection System	Aerosol / perfluorohexanone / heptafluoropropane
Isolation Method	Non-isolated (optional transformer)
Operating Temperature	-25°C to 60°C (derating above 45°C)
Operating Altitude	3000 m (derating above 3000 m)
Communication Interface	RS485 / CAN2.0 / Ethernet / dry contact

CERTIFICATIONS

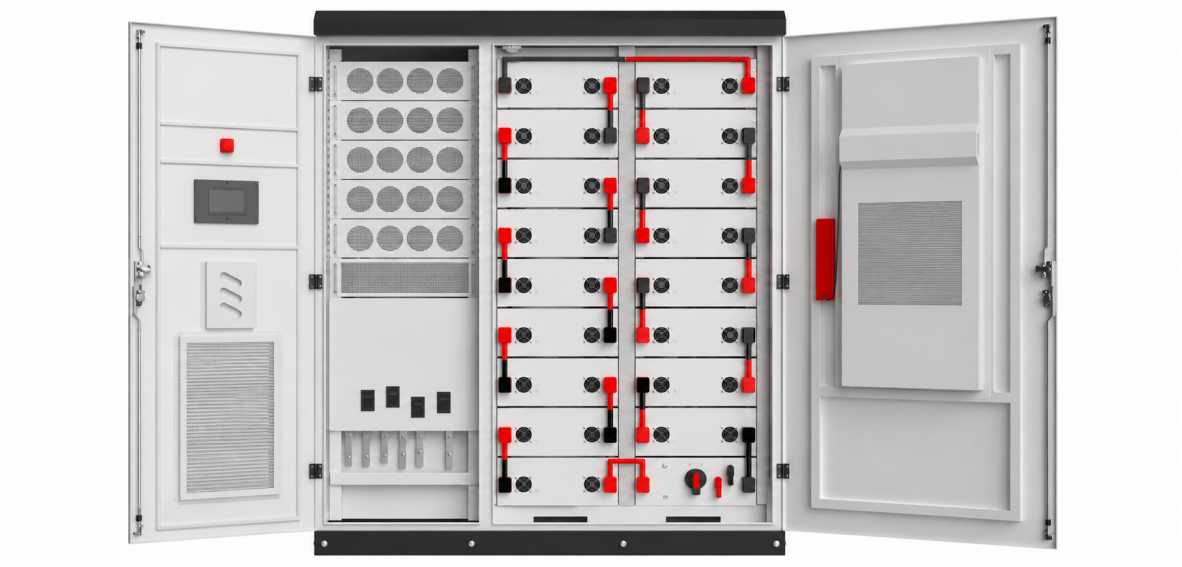
Electrical Safety	IEC62619 / IEC62477 / EN62477
EMC	IEC61000 / EN61000 / CE
Grid Connection / Islanding	IEC62116
Efficiency / Environment	IEC61683 / IEC60068

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SYSTEM ARCHITECTURE

RV-CB-105 / 200 / 215

CABINET COMPONENTS



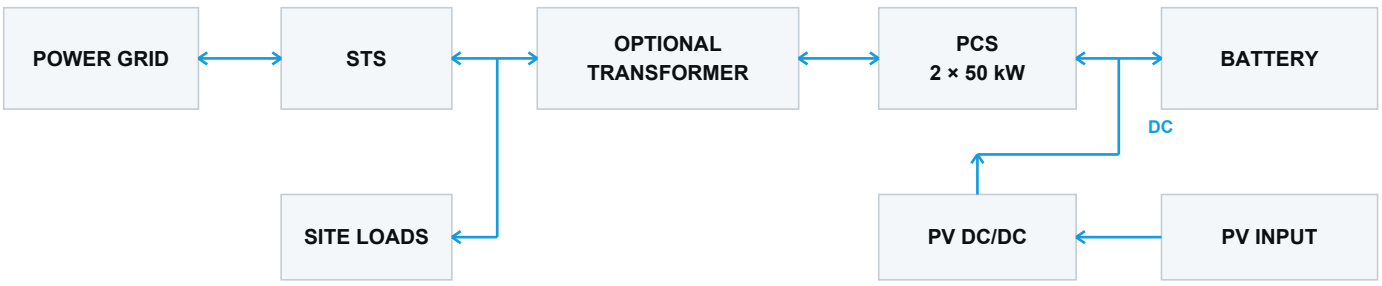
Cabinet interior illustration

- PCS power modules
- STS module
- Lightning protection module
- Battery packs
- Battery control box
- LCD control panel
- Emergency stop switch
- Door magnetic sensor
- Smoke sensor
- Flood sensor
- Cooling + heating
- Aerosol fire protection

Battery pack quantity and internal arrangement depend on project configuration.

ELECTRICAL SYSTEM OVERVIEW

100 kW system example



Functional overview. Final wiring and transformer configuration follow the project connection diagram.